

Listing of the Claims

1. (Currently Amended) A treatment room (7) suitable for recording images of a human or animal body on the basis of magnetic resonance (MR), wherein the walls (7a), the ceiling (7b) and the floor (7c) of the treatment room form an electromagnetic shield for a magnetic resonance (MR) imaging device (1) arranged in the treatment room, which MR imaging device comprises ~~at least~~
 - a target area in which the human or animal body can be accommodated,
 - a housing (2, 3, 4) comprising ~~at least one~~ a main magnetic unit and ~~at least one~~ a gradient magnetic unit for generating one or more magnetic fields in the target area (5), as well as
 - ~~at least one~~ a radio frequency (RF) pulse unit (6) for supplying an electromagnetic RF pulse to the target area (5), characterized in that and
 - means (10, 11, 12, 13, 14, 15, 16, 17) are present which, during operation, ~~counteract for counteracting~~ the electromagnetic effects (8) of the RF pulse in the treatment room (7) outside the target area (5).
2. (Currently Amended) A treatment room as claimed in claim 1, ~~characterized in that~~ wherein the counteracting means are placed in the treatment room.
3. (Currently Amended) A treatment room as claimed in claim 2, ~~characterized in that~~ wherein the counteracting means are provided on ~~at least one of~~ the walls and/or the ceiling and/or the floor of the treatment room.
4. (Currently Amended) A treatment room as claimed in claim 3, ~~characterized in that~~ wherein the counteracting means ~~consist of~~ comprises a layer made of stainless steel.
5. (Currently Amended) A treatment room as claimed in claim 3, ~~characterized in that~~ wherein the counteracting means ~~consist of~~ comprises an electro conductive coating.

6. (Currently Amended) A treatment room as claimed in claim 3, ~~characterized in that wherein~~ the counteracting means ~~consist of~~comprises one or more elements (10) made of a material that absorbs the electromagnetic waves.
7. (Currently Amended) A treatment room as claimed in claim 6, ~~characterized in that wherein~~ the electro conductive elements are embodied so as to be ferrite tiles (10).
8. (Currently Amended) A treatment room as claimed in claim 6 ~~or 7, characterized in that wherein~~ the electro conductive elements have an open fiber structure of electro conductive material.
9. (Currently Amended) A treatment room as claimed in claim 6, ~~characterized in that wherein~~ the electro conductive elements have a spatial structure ~~(11)~~ directed towards the interior of the treatment room.
10. (Currently Amended) A treatment room as claimed in claim 2, ~~characterized in that wherein~~ the counteracting means can be moved relative to the MR imaging device in the treatment room.
11. (Currently Amended) A treatment room as claimed in claim 2 ~~or 10, characterized in that wherein~~ the counteracting means comprise at least one LCR circuit ~~(13)~~ which is oriented ~~more or less~~substantially perpendicularly to the magnetic field generated by the RF pulse.
12. (Currently Amended) A treatment room as claimed in claim 2 ~~or 10, characterized in that wherein~~ the counteracting means comprise at least one LCR dipole antenna ~~(14)~~ which is oriented ~~more or less~~substantially parallel to the electric field generated by the RF pulse.
13. (Currently Amended) A treatment room as claimed in claim 12, ~~characterized in that wherein~~ the LCR dipole antenna is electrically connected to the electromagnetic shield and has an electric length equal to $\frac{1}{4} \lambda$, where λ is equal to the wavelength of the RF pulse.

14. (Currently Amended) A treatment room as claimed in claim 12, ~~characterized in that wherein~~ the LCR dipole antenna is connected to the electromagnetic shield so as to be electrically shielded there from, and has an electric length equal to $\frac{1}{2} \lambda$, where λ is equal to the wavelength of the RF pulse.

15. (Currently Amended) A treatment room as claimed in claim 2 ~~or 10~~, ~~characterized in that wherein~~ the counteracting means comprise at least one electroconductive plane ~~(12)~~ which can be arranged in the treatment room.

16. (Currently Amended) A treatment room as claimed in claim 1, ~~characterized in that wherein~~ the counteracting means form part of the MR imaging device.

17. (Currently Amended) A treatment room as claimed in claim 16, ~~characterized in that wherein~~ the counteracting means ~~(15, 16, 17)~~ have a comparatively high electric resistivity as compared to the resistivity of the material of the housing, and are provided on the housing so as to enclose the RF unit.

18. (Currently Amended) A treatment room as claimed in claim 17, ~~characterized in that wherein~~ the counteracting means ~~consist of~~ comprises a large number of abutting waveguides ~~(15)~~, provided with at least one electrically open end ~~(15a-15b)~~.

19. (Currently Amended) A treatment room as claimed in claim 18, ~~characterized in that wherein~~ the electric length of the waveguide is equal to $\frac{1}{4} \lambda$, where λ is equal to the wavelength of the RF pulse.

20. (Currently Amended) A treatment room as claimed in claim 17 ~~or 18~~, ~~characterized in that wherein~~ a reactive element ~~(15c)~~ is provided near at least one end ~~(15a-15b)~~ of the waveguide.

21. (Currently Amended) A magnetic resonance imaging device comprising a target area in which the human or animal body can be accommodated,

- a housing comprising ~~at least one~~ a main magnetic unit and ~~at least one~~ a gradient magnetic unit for generating one or more magnetic fields in the target area, ~~as well as~~
- at least one radio frequency (RF) pulse unit for supplying an electromagnetic RF pulse to the target area, and ~~provided with means as described in one or more of claims 16 to 20 for counteracting the electromagnetic effects of the RF pulse in the treatment room outside the target area.~~